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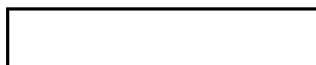
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PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAMESE RAILROADS



DECLASS REVIEW by NIMA/DOD

REPORT NO. 35  
CIA/PIR 75110

DATE APRIL 1967

GROUP 1  
Excluded from automatic  
downgrading and declassification

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DDI IMAGERY ANALYSIS STAFF

PIR 75110

## PREFACE

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

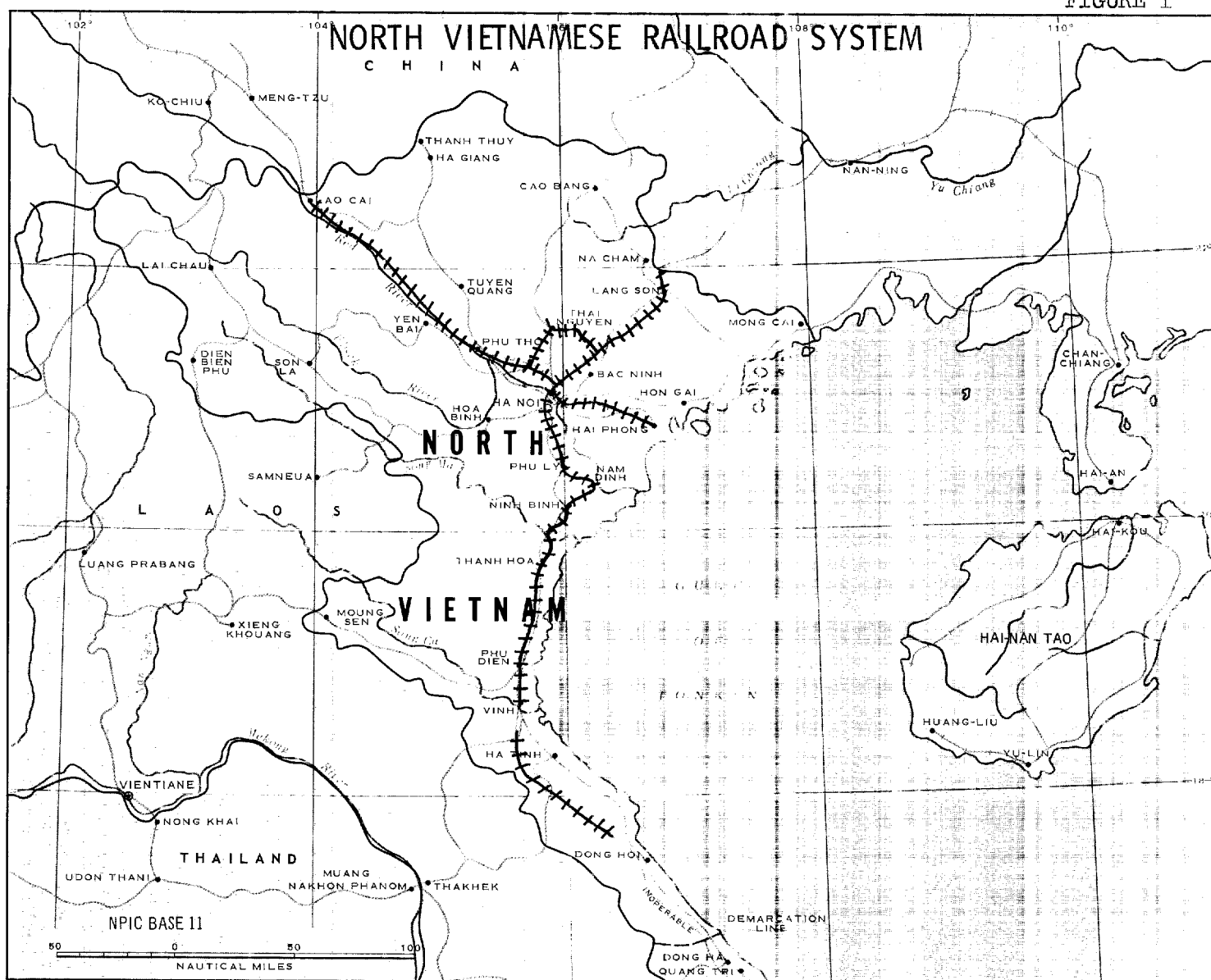
The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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FIGURE 1



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## SUMMARY

That portion of the Hanoi/Haiphong Rail Line covered by interpretable photography was open to through traffic. Three bridge interdictions were noted on the Hanoi/Dong Hoi Rail Line, and a new by-pass/transloading track has been built around the destroyed Thanh Hoa Railroad Yard.

## CONTENTS

Hanoi/Lao Cai Rail Line	Page 4
Hanoi/Dong Dang Rail Line	6
Hanoi/Dong Hoi Rail Line	8
Hanoi/Haiphong Rail Line	19
Thai Nguyen Rail Line	20

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FIGURE 2

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KEY

dots within this report have been keyed in the following manner:

when bridge berthed - now serviceable.

By stars bridge or bridge serviceable.

when bridge unserviceable.

when bridge crossing facilities unserviceable.

By bars bridge under construction.

Original bridge has not been damaged or destroyed based on available photography.

Scale of rail line covered by available, interpretive photography.

Map of interest. Turn to the line number within the section for further information.

Reference developed within the reporting period is printed in red.

Reference is printed in black.

Notes of Bridges numbered 1 through 76 can be found in CIAPIR 6000, at 160.

HANOI-LAO CAI  
RAILROAD0 5  
STATUTE MILES

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES  
HANOI/LAO CAI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
30	Lang Thip Railroad Bridge over Ngoi Thip [REDACTED]	[REDACTED]	S
32	Lang Kay Railroad Bridge NW over Ngoi Key [REDACTED]		S
35	Lang Kay Railroad Bridge over Ngoi Chuc [REDACTED]		S
37	Lang Kay Railroad Bridge S over Nam Linh [REDACTED]		S
39	Lang Khay Railroad Bridge over Ngoi Kay [REDACTED]		S
41	Khe Se Railroad Bridge S over stream [REDACTED]		S
43	Trai Hut Railroad Bridge NW over Ngoi Cho [REDACTED]		S
44	Trai Hut Railroad Bridge over Nam Lam [REDACTED]		S
45	Som Dong Dep Railroad Bridge over Nam Muoi [REDACTED]		S
47	Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [REDACTED]		S
48	Lang Quach Ngoai Railroad Bridge over Ngoi Quach [REDACTED]		S
51	Pho Chang Railroad Bridge over Ngoi Trang [REDACTED]		S
55	Pho Hop Railroad Bridge over Ngoi Hop [REDACTED]		S
67	Phu Tho Railroad Bridge E over stream [REDACTED]	S	

\* All data is compiled from photography dated [REDACTED] or thereafter.  
Symbols: S - serviceable, U - unserviceable.

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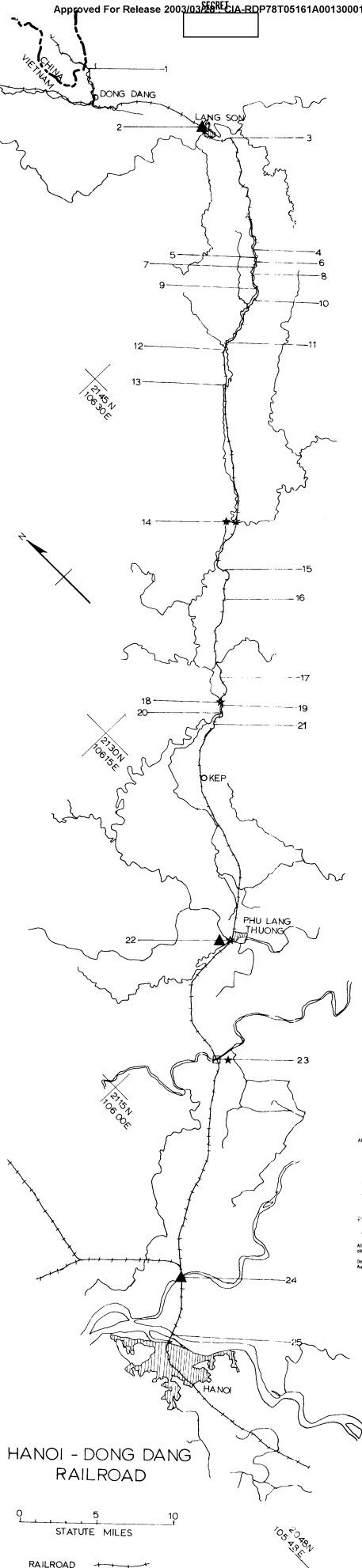
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FIGURE 3



KEY

- All maps within this report have been keyed in the following manner:
- 1. Main bridge location - new serviceable.
  - 2. By-pass bridge or bridge serviceable.
  - 3. Main bridge unserviceable.
  - 4. All bridge crossing section unserviceable.
  - 5. By-pass bridge under construction.
  - 6. Original bridge has not been damaged or destroyed based on available primary data.
  - 7. Extent of rail line covered by satellite, interpreted unserviceable.
  - 8. State of interest. Refer to the item number within the section for further information.
- All intelligence coverage within the reporting period is printed in red, older intelligence is printed in black.
- Description of bridges numbered 1 through 25 can be found in CHAPTER 804, August 1964.

HANOI - DONG DANG  
RAILROAD

0 5 10  
STATUTE MILES

RAILROAD  
STREAMS  
BRIDGE NO. & LOCATION

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES  
HANOI/DONG DANG RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
14	Cao Nung Railroad Bridge over Song Hoa		S
14	Cao Nung Railroad Bridge E over Song Hoa		S
22	Bac Giang Railroad and Highway Bridge over Song Thuong		S
23	Dap Cau Railroad and Highway Bridge over Song Cau		U
23	Dap Cau Railroad Bridge over Song Cau		S

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\* All data is compiled from photography dated or thereafter.  
Symbols: S - serviceable, U - unserviceable

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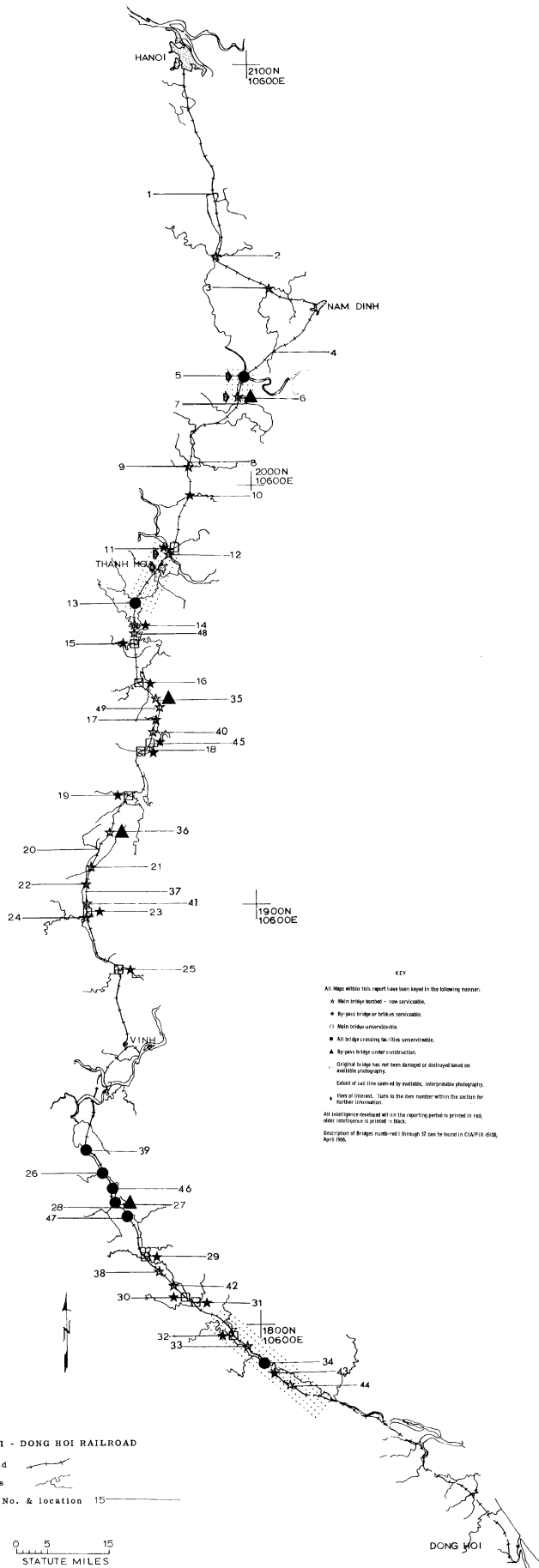


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FIGURE 4

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES  
HANOI/DONG HOI RAIL LINE

Bridge Number and Name	Date last observed	Status
3 Cao Duong Railroad and Highway Bridge over canal [REDACTED]	[REDACTED]	S
5 Ninh Binh Railroad and Highway Bridge over Song Day [REDACTED]		U
5 Ninh Binh Railroad Bridge over Song Day [REDACTED]		U
5 Ninh Binh Railroad Pontoon Bridge		U
6 Ha Thon Railroad and Highway Bridge over Song Vac [REDACTED]		S
7 Ly Nhan Railroad and Highway Bridge over stream [REDACTED]		S
9 Yen Xa Railroad and Highway Bridge over stream [REDACTED]		S
10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [REDACTED]		U
10 Dong Phong Thuong Railroad Bridge S over Song Len [REDACTED]		U
10 Dong Phong Thuong E Railroad By-Pass Bridge [REDACTED]		S
11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [REDACTED]		U
11 Phuong Dinh Railroad Bridge over Lach Truong [REDACTED]		S
12 Thanh Hoa Railroad and Highway Bridge over Song Ma [REDACTED]		S
13 Thien Linh Dong Railroad Bridge over Hoang Giang [REDACTED]	U	

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	13 Thien Linh Dong Railroad Bridge SW over River [REDACTED]	[REDACTED]	S
25X1	14 Thinh Lac Railroad Bridge over stream [REDACTED]		U
25X1	14 Thinh Lac Railroad Bridge SSW over stream [REDACTED]		S
25X1	15 Truong Quang Tien Railroad Bridge over Song Yen Tr [REDACTED]		S
25X1	15 Truong Quang Tien Railroad Bridge E over River [REDACTED]		U
25X1	16 Thi Long Railroad Bridge over Suoi Cay Gang [REDACTED]		U
25X1	16 Thi Long Railroad Bridge SW over Suoi Cay Gang [REDACTED]		S
25X1	17 Phu Quat Railroad Bridge over stream [REDACTED]		S
25X1	18 Dia Thuy Railroad Bridge SW over Khe Dua [REDACTED]		U
25X1	18 Dia Thuy Railroad Bridge NW over Khe Dua [REDACTED]		S
25X1	19 Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [REDACTED]		U
25X1	19 Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [REDACTED]		S
25X1	19 Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [REDACTED]		U
25X1	19 Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [REDACTED]		S
25X1	21 Long Ngoc Railroad and Highway Bridge over unknown barrier [REDACTED]	S	

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<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
-------------------------------	---------------------------	---------------

22	Dong Khe Railroad Bridge over stream		S
----	--------------------------------------	--	---

23	Dien Chau Railroad Bridge over Song Bang	U
----	--	---

23	Dien Chau Railroad Bridge E over Song Bang	S
----	--	---

24	Da Phuc Railroad Bridge over Intermittent Waterway	S
----	--	---

25	Tam Da Railroad and Highway Bridge over Song Cua Lo	U
----	---	---

25	Tam Da Railroad By-Pass Bridge	U
----	--------------------------------	---

26	Trai Hoi Railroad and Highway Bridge over Ngan Sau	U
----	--	---

27	Xom Hoai Railroad and Highway Bridge over Rao No	U
----	--	---

30	La Khe Thon Railroad Bridge over Song Tien	U
----	--	---

30	La Khe Thon Highway Bridge over Song Tien	S
----	---	---

31	Bai Duc Thon Railroad Bridge over Khe Ba Giang	U
----	--	---

31	Bai Duc Thon Railroad Bridge S over Khe Ba Giang	S
----	--	---

32	Xom Khe Railroad Bridge over Khe Net	U
----	--------------------------------------	---

32	Xom Khe Railroad Bridge By-Pass over Khe Net	S
----	--	---

33	Kim Lu Xa Railroad Bridge over Khe Danh	S
----	---	---

35	Thi Long Railroad Bridge SE over stream	S
----	---	---

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DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
	35 Thi Long Railroad Bridge S By-Pass	[REDACTED]	S
25X1	36 Tho Trang Railroad Bridge over stream [REDACTED]		S
25X1	39 Quang Te Railroad Bridge over Khe Hac Giang [REDACTED]		U
25X1	40 Qui My Railroad Bridge over stream [REDACTED]		S
	41 Tu My Railroad Bridge		S
	42 Trai Tran Xom Railroad Bridge		S
25X1	43 Dong Ca Thon Railroad and Highway Bridge over Cai Khe [REDACTED]		S
25X1	44 Kieu Moc Phuong Railroad Bridge W [REDACTED]		S
25X1	45 Phu Cu Railroad Bridge N over stream [REDACTED]		U
	45 Phu Cu Railroad By-Pass Bridge		S
25X1	48 Sai Thon Railroad Bridge N over stream [REDACTED]	S	
25X1	49 Nap Bang Railroad Bridge over stream [REDACTED]	S	

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\* All data is compiled from photography dated [REDACTED] or thereafter.  
 Symbols: S - serviceable, U - unserviceable

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ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Ninh Binh RR. Bridge

BE :

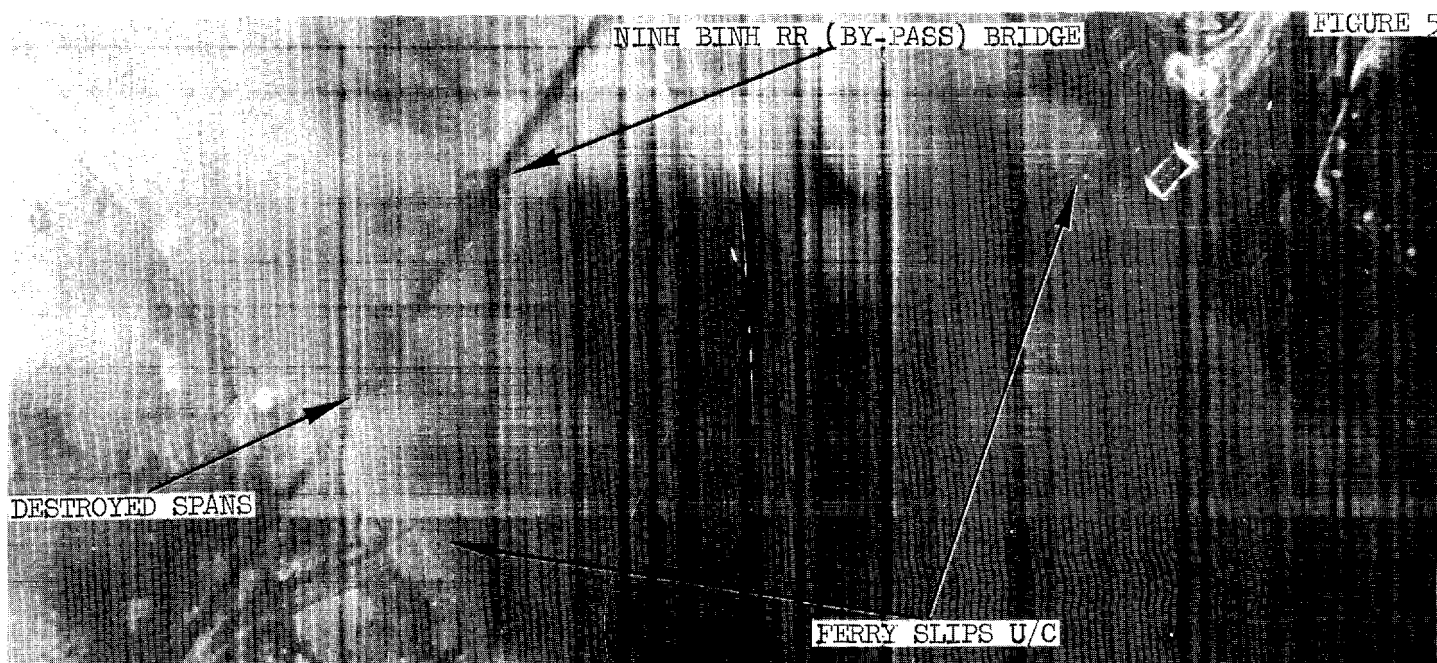
COORDINATES : 20 15N - 105 59E, XH030405

PHOTO REFERENCE :

MAP REFERENCE : JOG (A) 1501, NF 48-15

25X1

Both ends of the 25-span Ninh Binh Railroad (By-Pass) Bridge have been heavily damaged (partially illustrated); approximately 6 spans have been destroyed. Two new railroad ferry slips, one on each side of the river, are under construction immediately to the west of the by-pass bridge. Rail has been laid on one approach, but neither slip has been completed and no rail ferryboat has been observed in the area. Although all of the rail bridges are currently unserviceable, one railroad ferry crossing probably remains serviceable at this river crossing.



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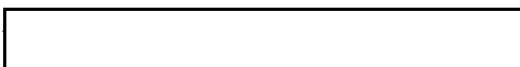
ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : Ha Thon Railroad By-Pass Bridge

BE : NA


COORDINATES : 20 12N - 105 58E, XH013348

PHOTO REFERENCE :



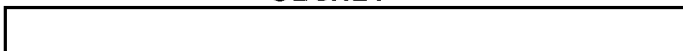
MAP REFERENCE : JOG (A) 1501, NF 48-15

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Construction has begun on a by-pass bridge for the serviceable Ha Thon Railroad Bridge  Part of the roadbed has been completed, and track has been laid on this section (Figure 6). The remaining roadbed is under active construction. Four piers have been completed at the new bridge site, but no spans have been erected or observed in the area (Figure 7).

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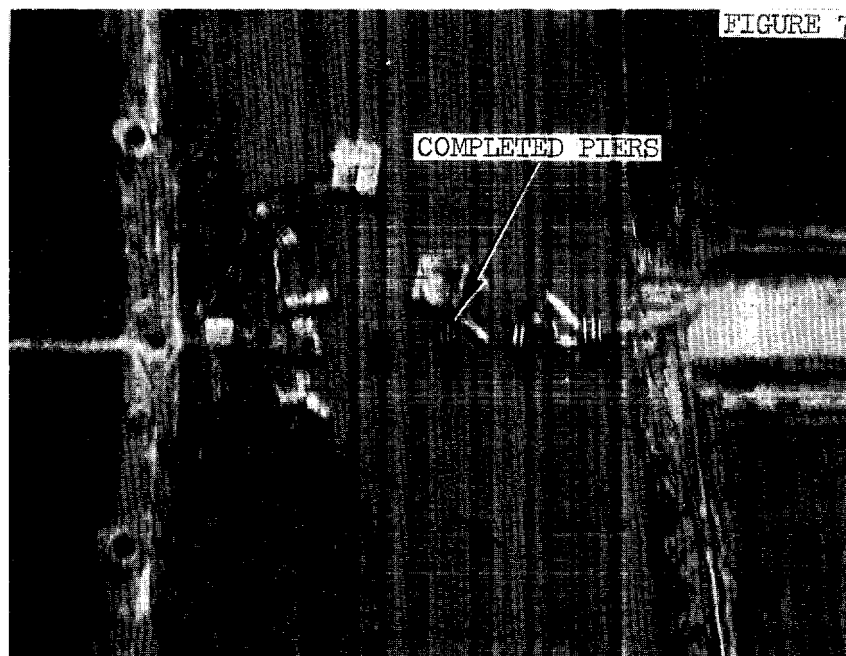
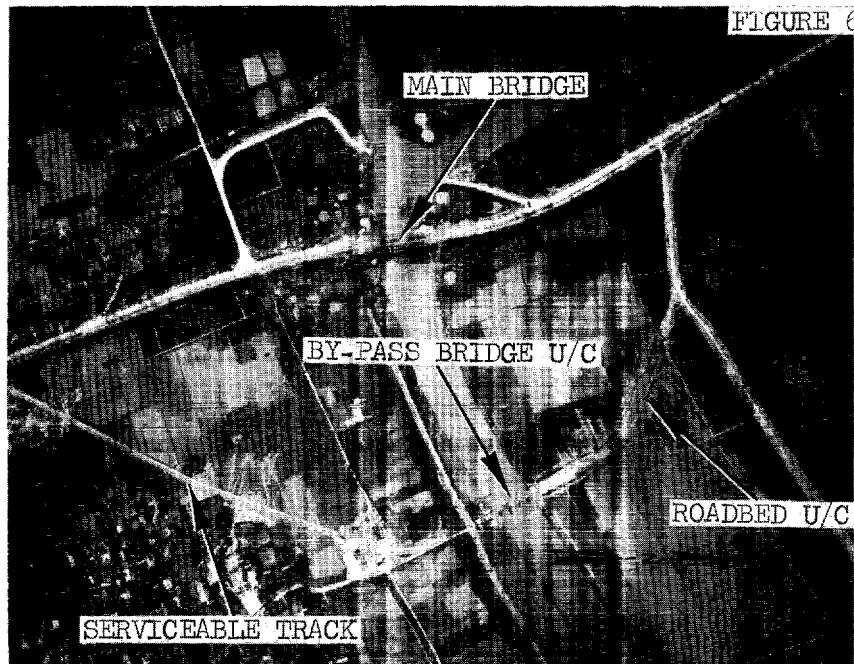
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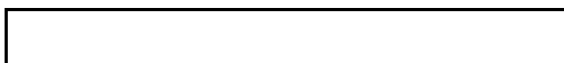
ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Railroad Ferry

BE : NA

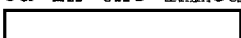
COORDINATES : 19 50N - 105 48E, WG835933

PHOTO REFERENCE :

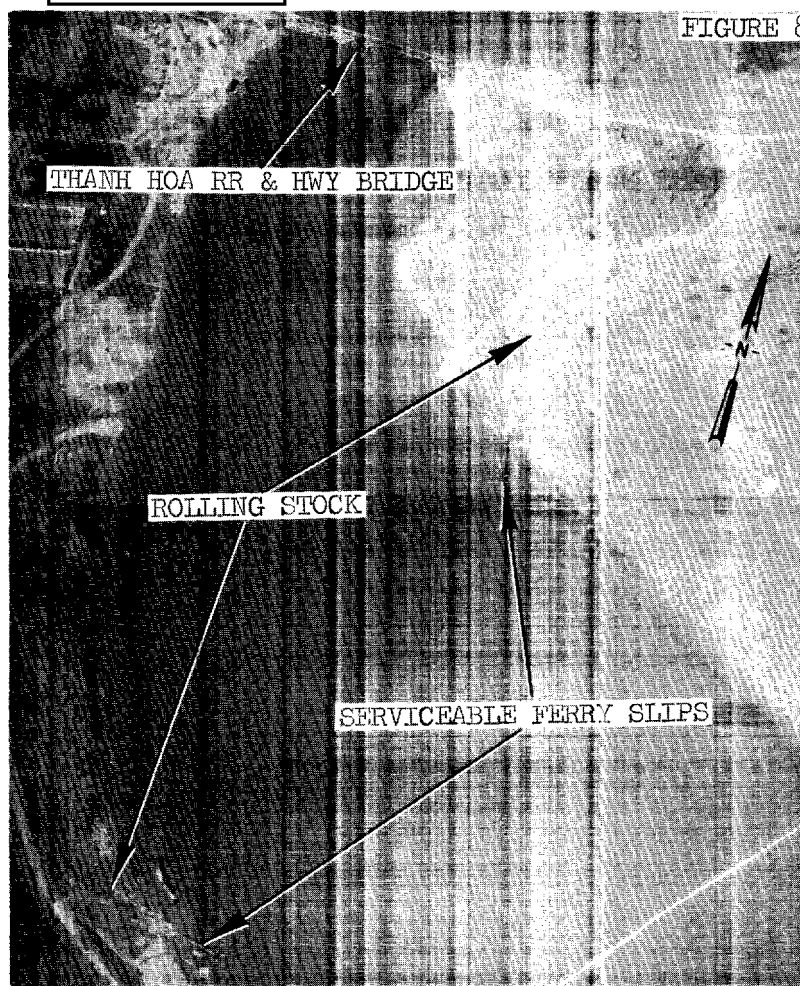


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MAP REFERENCE : JOG (A) 1501, NE 48-3

Two of the 4 railroad ferry slips previously identified in Report No. 13 have been repaired and appear to be serviceable. However no railroad ferry-boat was observed in the immediate vicinity. The Thanh Hoa Railroad and Highway Bridge  remains serviceable.

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Thanh Hoa Railroad Station, Yard and Siding

BE

:

COORDINATES : 19 48N - 105 46E

PHOTO REFERENCE

:

MAP REFERENCE : JOG (A) 1501, NE 48-3

25X1

A new serviceable by-pass track has been built around the heavily cratered Thanh Hoa Railroad Station, Yard and Siding . This track leaves the main line at UTM WG812914, passes to the east of the yards through the city of Thanh Hoa, and rejoins the main line at UTM WG807898. A section of this by-pass route is double tracked for a distance of approximately 1050'. Large amounts of supplies on both sides of the track together with the presence of approximately 20 small 2-axle flat cars within the area of double tracking indicate that this new by-pass track is a new transloading facility replacing the damaged Thanh Hoa Yard (see Report No. 29). Although the yard itself is heavily cratered and unserviceable to through traffic, there is at least one serviceable track at the southern end of the yard. Thirteen 2-axle flat cars carrying rails are located on the main line between the yard and the southern junction with the by-pass route, indicating that the southern section of the main yard may still be in use.

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Thanh Hoa Railroad Station, Yard and Siding

BE

:

COORDINATES : 19 48N - 105 46E

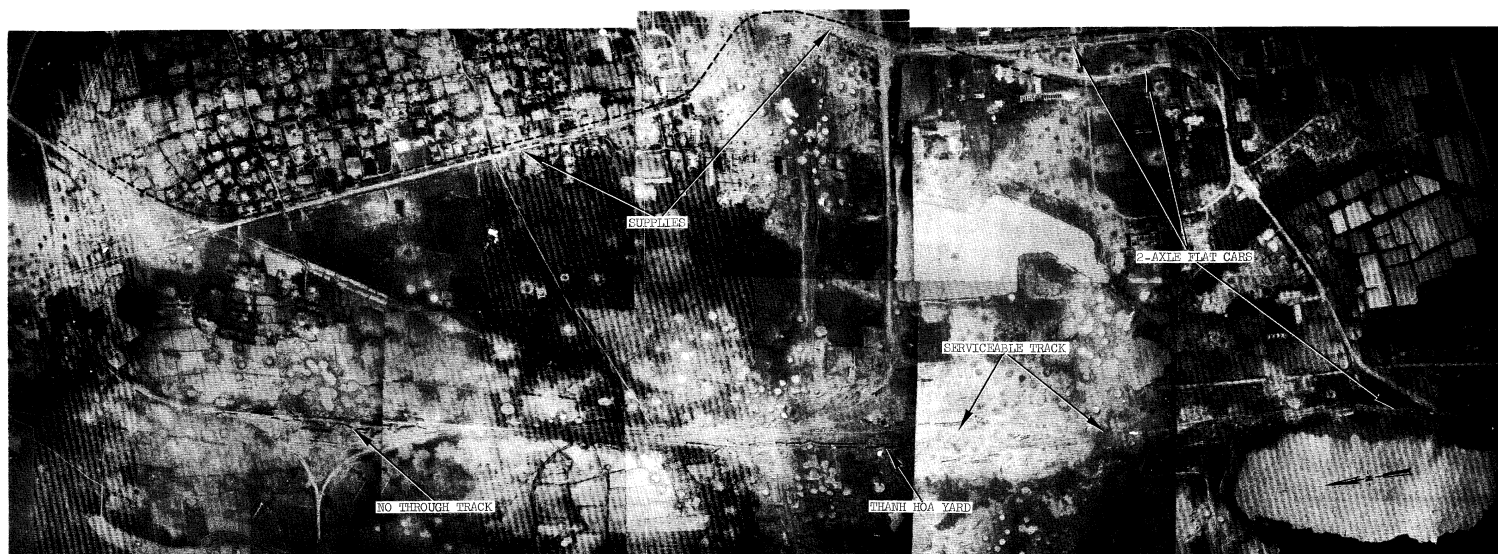
PHOTO REFERENCE

:

MAP REFERENCE : JOG (A) 1501, NE 48-3

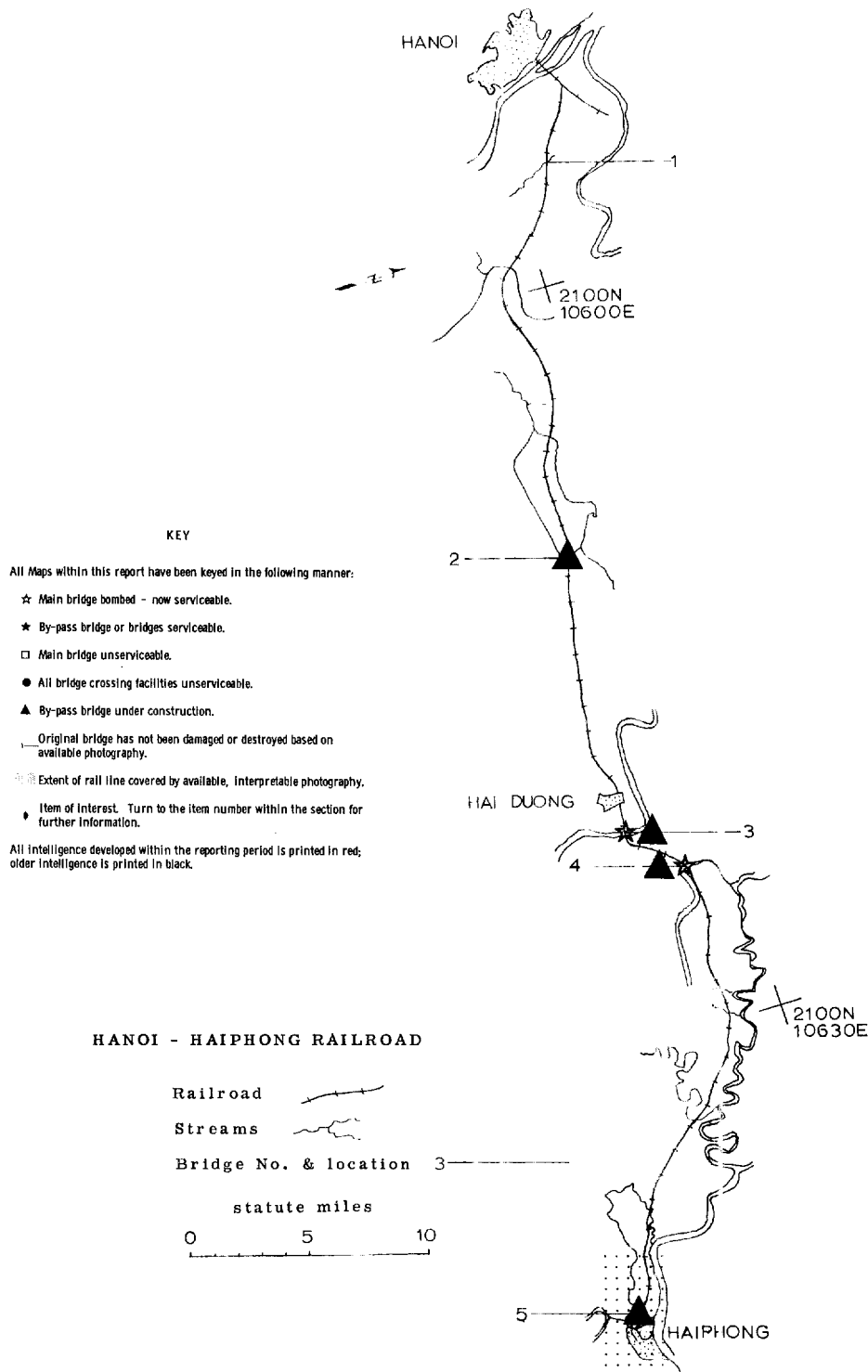
A new serviceable by-pass track has been built around the heavily cratered Thanh Hoa Railroad Station, Yard and Siding. This track leaves the main line at UTM WG812914, passes to the east of the yards through the city of Thanh Hoa, and rejoins the main line at UTM WG807898. A section of this by-pass route is double tracked for a distance of approximately 1050'. Large amounts of supplies on both sides of the track together with the presence of approximately 20 small 2-axle flat cars within the area of double tracking indicate that this new by-pass track is a new transloading facility replacing the damaged Thanh Hoa Yard (see Report No. 29). Although the yard itself is heavily cratered and unserviceable to through traffic, there is at least one serviceable track at the southern end of the yard. Thirteen 2-axle flat cars carrying rails are located on the main line between the yard and the southern junction with the by-pass route, indicating that the southern section of the main yard may still be in use.

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----- NEW BY-PASS ALIGNMENT

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FIGURE 10

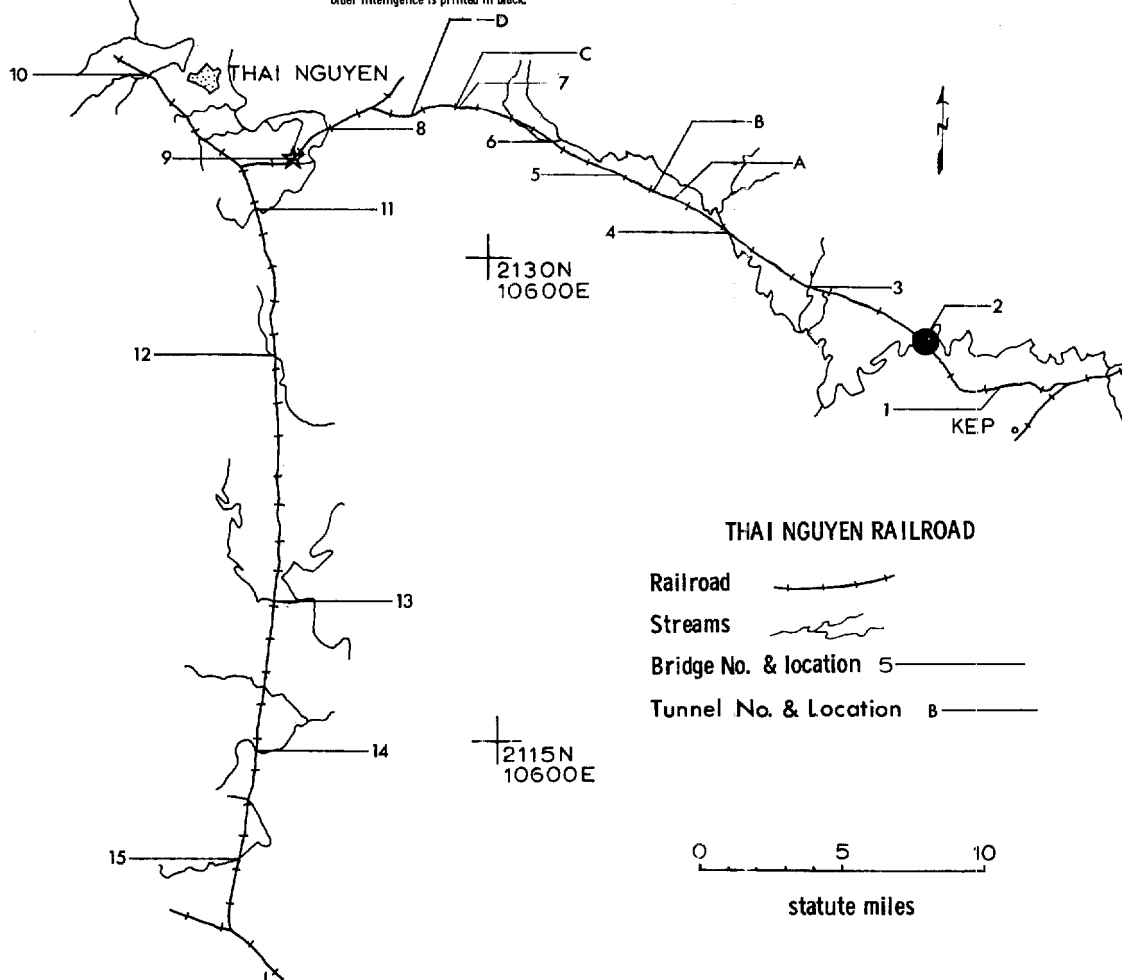


KEY

All Maps within this report have been keyed in the following manner:

- ☆ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- Main bridge unserviceable.
- All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- ◆ Item of Interest. Turn to the Item number within the section for further information.

All Intelligence developed within the reporting period is printed in red; older intelligence is printed in black.



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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES  
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	2 Dong Muc Railroad Bridge over Song Thuong [REDACTED]	[REDACTED]	U	25X1
25X1	9 Lang Lau Railroad Bridge over Song Cau [REDACTED]	[REDACTED]	S	

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\* All data is compiled from photography dated [REDACTED] or thereafter.  
Symbols: S - serviceable, U - unserviceable

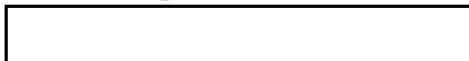
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